

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference A 54 670 PCT	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/EP2003/013293	International filing date (<i>day/month/year</i>) 26 November 2003 (26.11.2003)	Priority date (<i>day/month/year</i>) 27 November 2002 (27.11.2002)
International Patent Classification (IPC) or national classification and IPC B21K 5/04		
Applicant KOMET GROUP HOLDING GMBH et al.		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. (*sent to the applicant and to the International Bureau*) a total of 5 sheets, as follows:

sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. (*sent to the International Bureau only*) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

Box No. I Basis of the report
 Box No. II Priority
 Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 Box No. IV Lack of unity of invention
 Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 Box No. VI Certain documents cited
 Box No. VII Certain defects in the international application
 Box No. VIII Certain observations on the international application

Date of submission of the demand 23 June 2004 (23.06.2004)	Date of completion of this report 10 February 2005 (10.02.2005)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2003/013293

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:

- international search (under Rules 12.3 and 23.1(b))
- publication of the international application (under Rule 12.4)
- international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

The international application as originally filed/furnished

the description:

pages _____ 1-8 _____, as originally filed/furnished
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

the claims:

pages _____, as originally filed/furnished
 pages* _____, as amended (together with any statement) under Article 19
 pages* 1-25 _____ received by this Authority on 07 October 2004 (07.10.2004)
 pages* _____ received by this Authority on _____

the drawings:

pages 1/3-3/3 _____, as originally filed/furnished
 pages* _____ received by this Authority on _____
 pages* _____ received by this Authority on _____

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. The amendments have resulted in the cancellation of:

- the description, pages _____
- the claims, Nos. _____
- the drawings, sheets/figs _____
- the sequence listing (*specify*): _____
- any table(s) related to sequence listing (*specify*): _____

4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- the description, pages _____
- the claims, Nos. _____
- the drawings, sheets/figs _____
- the sequence listing (*specify*): _____
- any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/13293

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-25	YES
	Claims		NO
Inventive step (IS)	Claims	1-25	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-25	YES
	Claims		NO

2. Citations and explanations

1. Reference is made to the following document:

D4: DE-A-198 56 986

2. Independent claim 1:

Document D4, which is regarded as the closest prior art, discloses:

Method for producing a drilling tool, which is equipped with a shaft for clamping in a machine tool and with a drill bit provided with cutting edges, using a tubular blank (50), the tubular blank having a formable part and a clampable part which is located at the end of the formable part and is integrally connected therewith (see finished tool 10), the formable part being formed (by means of rotary swaging) in a non-cutting manner to form chucking grooves and coolant channels.

The subject matter of claim 1 differs from D4 in that the wall of the tube is thicker in the area of the clampable part than in the area of the formable

part.

This makes it possible when manufacturing the tool to use materials which have a good degree of formability without cutting but yet are not so strong. This low strength is compensated in the area of the clampable part by the increase in thickness of the tube wall.

Although tubular blanks with different diameters or different wall thickness are known, the use thereof is not known in a method for producing drilling tools and, more particularly, in order to solve the aforementioned problem.

The subject matter of claim 1 is novel and inventive (PCT Article 33(2) and (3)).

3. Dependent claims 2 to 25:

Claims 2 to 25 concern further configurations of the method as per claim 1 and the subject matter thereof is likewise novel and inventive (PCT Article 33(2) and (3)).

4. Observations:

Independent claim 1 has not been drafted in the two-part form defined by PCT Rule 6.3(b). However, in the present case the two-part form would appear to be appropriate. Accordingly, the features known in combination from the prior art (document D4) belong in the preamble (PCT Rule 6.3(b)(i)) and the remaining features in the characterising part (PCT Rule 6.3(b)(ii)).